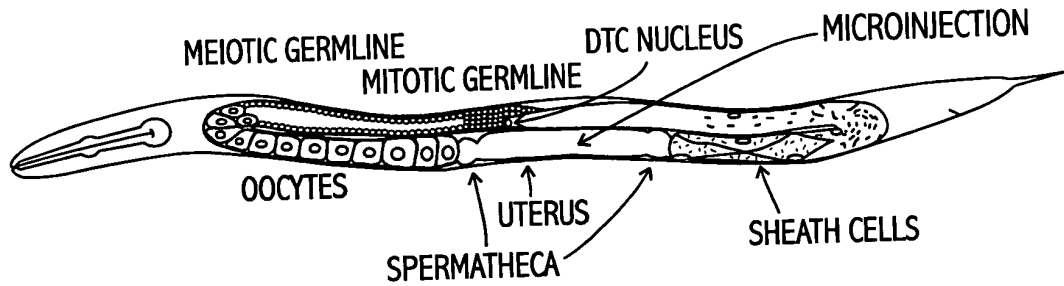
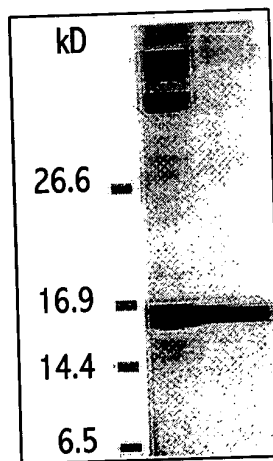




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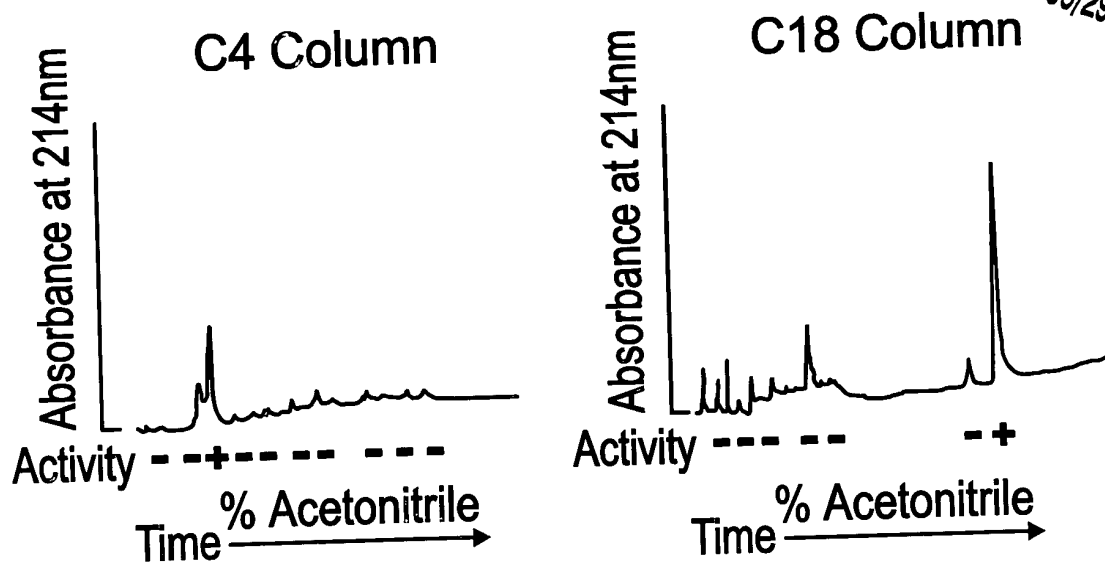
*FIG. 1*



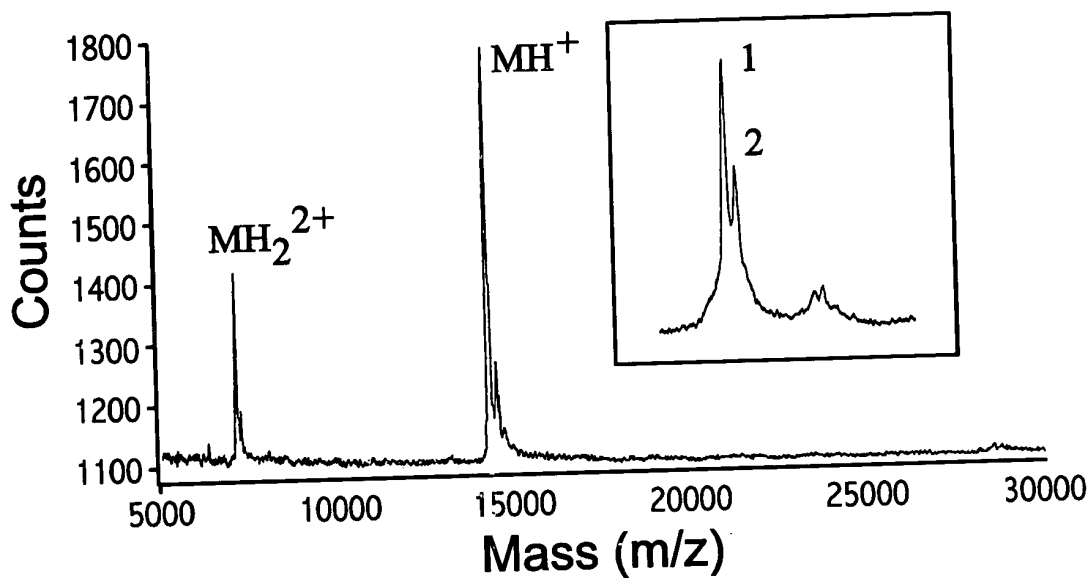
*FIG. 2*



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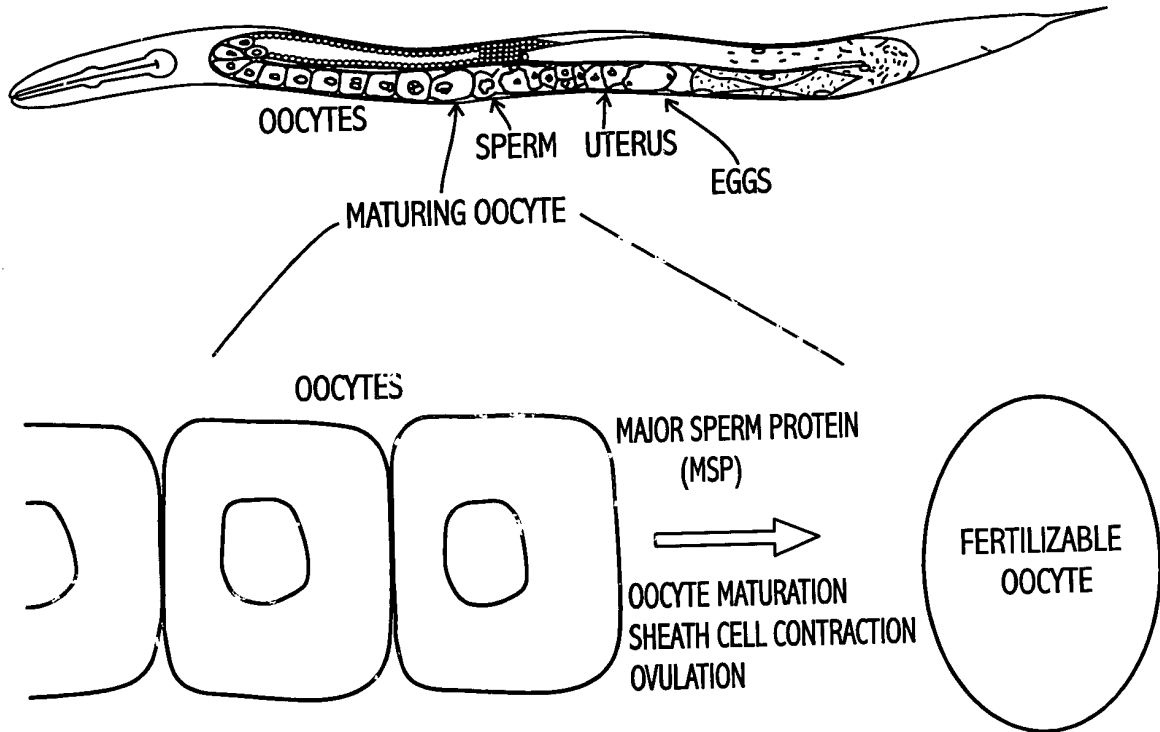
*FIG. 3*



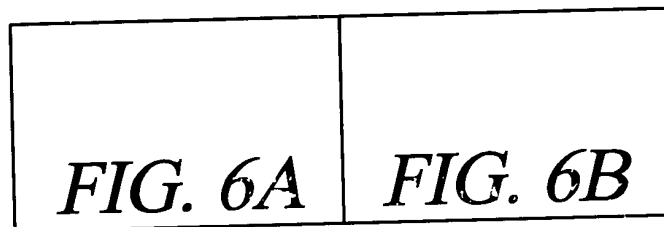
*FIG. 4*



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*FIG. 5*



*FIG. 6*



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MSP-3	M	1	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	60
MSP-10	M	10	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	50
MSP-19	M	20	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	40
MSP-31	M	30	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	30
MSP-33	M	40	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	20
MSP-38	M	50	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	10
MSP-40	M	60	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	0
MSP-45	M	10	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	60
MSP-49	M	20	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	50
MSP-50	M	30	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	40
MSP-51	M	40	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	30
MSP-53	M	50	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	20
MSP-55	M	60	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	10
MSP-56	M	10	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	0
MSP-57	M	20	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	60
MSP-59	M	30	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	50
MSP-63	M	40	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	40
MSP-64	M	50	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	30
MSP-65	M	60	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	20
MSP-76	M	10	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	10
MSP-77	M	20	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	0
MSP-78	M	30	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	60
MSP-79	M	40	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	50
MSP-81	M	50	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	40
MSP-113	M	60	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	30
MSP-142	M	10	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	20
MSP-152	M	20	AQSVPPGDIQTQPGTKIVFNAPYDDKHTYHIKVINSSARRIGYGIKTNNMKRLGVDPPCGVLDPKEAVL	10

FIG. 6A



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70 80 90 100 110 120 126  
MSP-3 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:2  
MSP-10 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:3  
MSP-19 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-31 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-33 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:4  
MSP-38 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:5  
MSP-40 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-45 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-49 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:6  
MSP-50 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-51 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-53 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-55 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:7  
MSP-56 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:3  
MSP-57 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:7  
MSP-59 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-63 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:8  
MSP-64 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-65 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-76 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:3  
MSP-77 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:9  
MSP-78 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:10  
MSP-79 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:9  
MSP-81 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-113 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-142 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:1  
MSP-152 LAVSCDAFAFGQEDTNNDRITVEWTNTPDGAARQFRREWFQDGMVRRKNLPIEYNP SEQ ID NO:3

FIG. 6B

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[illegible]

**FIG. 7**



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	106	110	120	126
	↓	↓	↓	↓
AsMSP $\alpha$	REWFQGDGMVRRKNLPIEYNL			
AsMSP $\beta$	REWFQGDGMVRRKNLPIEYNL			
GrMSP1	LEWFQGDGMVRRKNLPIEYNV			
GrMSP2	LEWFQGDGMVRRKNLPIEYNV			
GrMSP3	LEWFQGDGMVRRKNLPIEYNV			
CeMSP142	REWFQGDGMVRRKNLPIEYNP			
CeMSP33	REWFQGDGMVRRKNLPIEYNP			
OvMSP1	REWFQGDGMVRRKNLPIEYNL			
OvMSP2	REWFQGDGMVRRKNLPIEYNL			

FIG. 9



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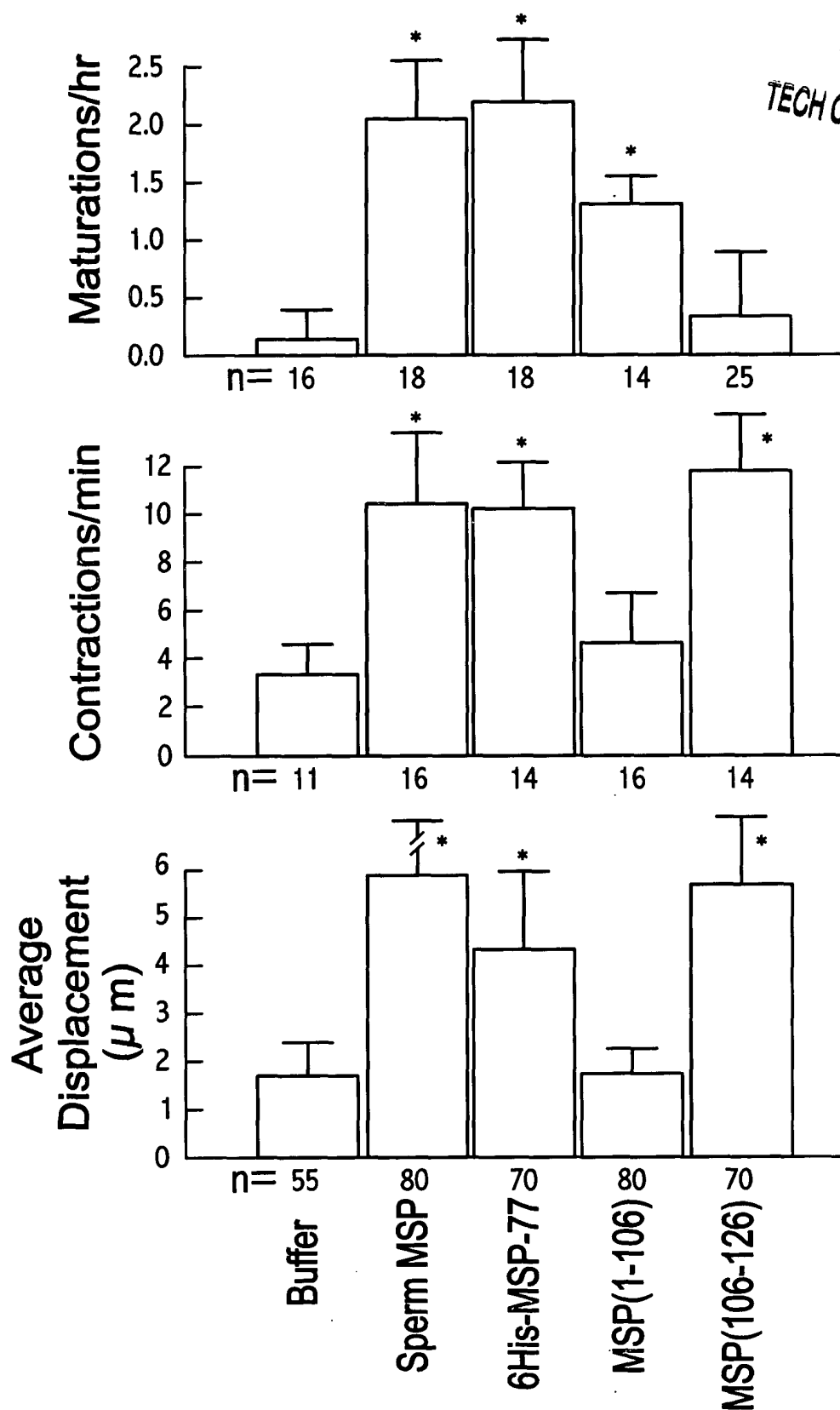


FIG. 10



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